(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 12 December 2002 (12.12.2002)

PCT

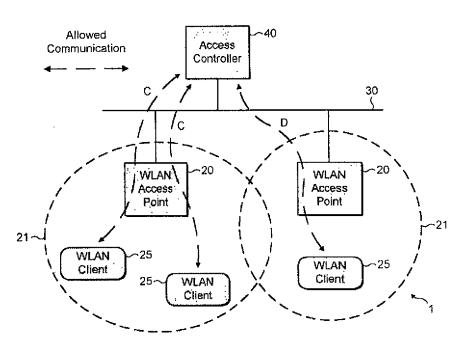
(10) International Publication Number WO 02/100038 A3

- (51) International Patent Classification7: H04L 29/06, 12/28
- (21) International Application Number: PCT/GB02/02561
- (22) International Filing Date: 30 May 2002 (30.05.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0113901.3 7 June 2001 (07.06.2001)
- (71) Applicant (for all designated States except US); NOKIA CORPORATION [FI/FI]; Keilalahdentie 4, Espoo, FIN-02150 Espoo (FI).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): EDNEY, Jonathan [GB/GB]; 31 High Street, Willingham, Cambridgeshire CB4 5BS (GB). HAVERINEN, Henry [FI/FI]; Arkkitehdinkatu 15 A 3, FIN-33720 Tampere (FI).

- (74) Agents: JOHNSON, Ian et al.; Nokia IPR Department, Nokia House, Summit Avenue, Farnborough, Hampshire GU14 ONG (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SECURITY IN AREA NETWORKS



(57) Abstract: The invention provides an access point device arranged to receive data packets from one or more client devices and transmit them along a public area network characterised wherein the access point device comprises security means arranged to consider the source/destination of data packets and control the forwarding/discarding of a data packet according to whether the data packet originates from a client device and is destined for a client device.

02/100038 A3

WO 02/100038 A3



Published:

--- with international search report

(88) Date of publication of the international search report: 22 May 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Int nat Application No PCT/GB 02/02561

		PCT/GB 6	02/02561
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H04L29/06 H04L12/28		
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC	
	SEARCHED		
Minimum do IPC 7	ocumentation searched (classification system followed by classificati H04L	on symbols)	
Documentat	tion searched other than minimum documentation to the extent that s	such documents are included in the fields	searched
	ata base consulted during the international search (name of data ba	se and, where practical, search terms use	d)
EPO-In	ternal		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with Indication, where appropriate, of the rel	Relevant to claim No.	
Х	WO 00 52575 A (PACKET TECHNOLOGI ;DANIELY GAD (IL)) 8 September 2000 (2000-09-08) abstract; figure 1B	ES LTD	1-4,24, 35-39
Υ	page 8, line 3 -page 10, line 2 page 10, line 14 -page 11, line page 14, line 3 - line 18	16	5-8
X Y	WO 01 37517 A (WAYPORT INC) 25 May 2001 (2001-05-25) abstract; figures 1,4 page 1, line 38 -page 2, line 27 page 3, line 3 - line 33		28,29
,	page 4, line 34 -page 5, line 11 page 10, line 3 - line 27		
Furth	ner documents are listed in the continuation of box C.	X Patent family members are liste	d in annex.
"A" docume consid	tegories of cited documents : ant defining the general state of the art which is not ered to be of particular relevance	"T" later document published after the in or priority date and not in conflict wi cited to understand the principle or invention	th the application but theory underlying the
filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-	
other n "P" docume	ent referring to an oral disclosure, use, exhibition or neans int published prior to the international filing date but han the priority date clatmed	document is combined with one or i ments, such combination being obv in the art. "8" document member of the same pate	lous to a person skilled
	actual completion of the international search	Date of mailing of the international s	earch report
4	November 2002		- ·
Name and mailing address of the ISA European Patent Office, P.B. 6618 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+81-70) 340-2040, Tx. 91 651 epo ni,		Authorized officer	
	Fax: (+31-70) 340-3016	Figiel, B	

INTERNATIONAL SEARCH REPORT

ational application No. PCT/GB 02/02561

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)						
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:						
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:						
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).						
Box II Observations where unity of Invention is lacking (Continuation of item 2 of first sheet)						
This International Searching Authority found multiple inventions in this international application, as follows:						
see additional sheet						
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.						
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:						
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-8,24,28-29,35-39						
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.						

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-8,24,28-29,35-39

security means is configured to send a reply packet back to the client

2. Claims: 9-12,30-33

security means is arranged to provide mapping information to the client

3. Claims: 13,34

security means is arranged to accept a unicast reply from a client

4. Claims: 14-18,21-23

security means is configured to modify the data packet

5. Claims: 19-20

security means is configured to analyse the differing transmission forms

6. Claims: 25,26

security means is arranged to monitor the volume of the transmission

7. Claim: 27

security means is configured to accept non-standard protocol and configure it into industry standard

INTERNATIONAL SEARCH REPORT

Information on patent raminy members

In al Application No PCT/GB 02/02561

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0052575	Α	08-09-2000	AU WO	2570400 A 0052575 A1	21-09-2000 08-09-2000
WO 0137517	. A	25-05-2001	AU AU EP WO WO US	2750001 A 7831600 A 1226697 A2 0133797 A2 0137517 A2 2002022483 A1	30-05-2001 14-05-2001 31-07-2002 10-05-2001 25-05-2001 21-02-2002